MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2016/2017

BCN2314 – COMPUTER NETWORK AND INTERNET COMPUTING

(All sections / Groups)

19 OCTOBER 2016
9.00 A.M. – 11.00 A.M
(2 Hours)

INSTRUCTIONS TO STUDENTS

1. This question paper consists of 7 pages with TWO SECTIONS only.
2. Attempt ALL the questions. The distribution of the marks for each question is given.
3. Please write all your answer in the Answer Booklet provided.

Section A

Multiple Choice Questions

This section carries a total of 60 marks. Each question carries 2 marks. Answer ALL the Questions

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1. What are Protocols?

A. Agreements on how communication components and DTE's are to communicate
B. Logical communication channels for transferring data
C. Physical communication channels sued for transferring data
D. None of above

2. Which data communication method is used to transmit the data over a serial communication link?

A. Simplex
B. Half-duplex
C. Full duplex
D. All of above

3. The method of communication in which transaction takes place in both directions, but only in one direction at a time, is called ?

A. Simplex
B. Four wire circuit
C. Full duplex
D. Half-duplex

4. In communication satellite, multiple repeaters are known as?

A. Detectors
B. Modulators
C. Stations
D. Transponders

5. Error detection at the data link layer is achieved by?

A. Bit stuffing
B. Cyclic redundancy codes
C. Hamming codes
D. Equalization

Continued...

6. Loss in signal power as light travels down the fiber is called _____.
A. Attenuation
B. Propagation
C. Scattering
D. Interruption

7. The topology with highest reliability is _____.
A. Bus topology
B. Star topology
C. Ring Topology
D. Mesh Topology

8. In OSI model dialogue control and token management are responsibilities of _____.
A. Session Layer
B. Network layer
C. Transport layer
D. Data link layer

9. Under mark parity,each parity bit is _____.
A. Alternated between 0 and 1
B. Always set to 0
C. Always set to 1
D. Not used

10. Baud means _____.
A. The number of bits transmitted per unit time
B. The number of byted transmitted per unit time
C. The rate at which the signal changes
D. None of above

Continued...

11. How long is an IPv6 address?
A. 32 bits
B. 128 bits
C. 128 bytes
D. 64 bits

12. You have 10 users plugged into a hub running 10Mbps half-duplex. There is a server connected to the switch running 10Mbps half-duplex as well. How much bandwidth does each host have to the server?
A. 100 kbps
B. 10 Mbps
C. 1 Mbps
D. 2 Mbps

13. How often are BPDUs sent from a layer 2 device?
A. Every 2 seconds
B. Never
C. Every 10 minutes
D. Every 30 seconds

14. Which router command allows you to view the entire contents of all access lists?
A. show all access-lists
B. show access-lists
C. show ip interface
D. show interface

15. What protocols are used to configure trunking on a switch?
A. VLAN Trunking Protocol
B. VLAN
C. 802.1Q
D. ISL

Continued...

16. How many collision domains are created when you segment a network with a 12-port switch?

A. 1
B. 12
C. 5
D. 2

17. Which protocol does Ping use?

A. TCP
B. ARP
C. ICMP
D. BootP

18. What PPP protocol provides dynamic addressing, authentication, and multilink?

A. NCP
B. HDLC
C. X.25
D. LCP

19. What is a stub network?

A. A network that has only one entry and exit point.
B. A network with only one entry and no exit point.
C. A network with more than one exit point.
D. A network with more than one exit and entry point.

20. Which of the following services use TCP?

A. DHCP
B. SMTP
C. FTP
D. TFTP
E. HTTP

Continued...

21. Which of the following is private IP address?
A. 192.168.24.43
B. 168.172.19.39
C. 172.15.14.36
D. 12.0.0.1

22. Which class of IP address provides a maximum of only 254 host addresses per network ID?
A. Class A
B. Class B
C. Class C
D. Class D
E. Class E

23. In dial up remote access a client uses the ---- to create a physical connection to a part on a remote access server of the private network.
A. Public telephone network
B. Bank's branch network
C. Private network
D. Public local network

24. Which of the following devices is a PC component that connects the computer to the network?
A. Bridge
B. NIC
C. DNS Server
D. Gateway

25. Which of the following devices modulates digital signals into analog signals that can be sent over traditional telephone lines?
A. Router
B. Gateway
C. Switch
D. Modem

Continued...

26. Which of the following devices takes data sent from one network device and forwards it to all devices on the network regardless of the intended recipient?

A. DNS Server
B. Switch
C. Hub
D. Gateway

27. Which of the following devices takes data sent from one network device and forwards it to the destination node based on MAC address?

A. Hub
B. Switch
C. Gateway
D. Modem

28. Although they've fallen out of favor, which of the following devices is used to connect different network segments and manage the traffic between them?

A. Bridge
B. Hub
C. Gateway
D. Repeater

29. Which of the following devices direct network traffic based not by MAC addresses but by software-configured network addresses?

A. Router
B. Hub
C. Bridge
D. NIC

30. Which of the following network devices/systems translates data from one format to another?

A. Hub
B. DHCP Server
C. Gateway
D. NIC

Continued...

Section B

Short Answer Questions

This section carries a total of 40 marks. Answer **ALL** the questions.

Question 1

a. What does DOCTYPE mean? [2 marks]
b. How do you make comments without text being picked up by the browser? [4 marks]
c. My hyperlink or image is not displaying correctly, what is wrong with it? [4 marks]

Question 2

a. Differentiate between abstraction and encapsulation. [6 marks]
b. Explain the term "inheritance" in object oriented concept. [6 marks]

Question 3

a. What is the simplest HTML page? Write the code and show the output. [7 marks]
b. Which function can be used to create an Alert popup dialog box? [3 marks]
c. Write an example code to create an Alert popup box. [8 marks]

End of Page